

Customer No.: 31561  
Application No.: 10/065,613  
Docket No.: 9735-US-PA

**To the Abstract:**

Please delete the only word of "Figures" on page 14 and therefore delete page 14. The amended Abstract is then as follows:

A frequency shift key decoding apparatus, having a frequency divider, a signal frequency splitter, and a demodulator. The signal frequency splitter has a frequency synthesizer,  $(n-1)$  first mixers,  $n$  second mixers, and  $n$  filters, where  $n$  is an integer equal to or larger than 2. The present invention can be applied to a multi-function wireless receiver that supports multiple peripherals. Since a plurality of local carrier signals is generated by only  $(n-1)$  mixers, the frequency of the local carrier signals can be randomly changed. As the mixers occupy a very small area of the integrated circuit chip, the fabrication cost is low. Further, since the mixers are easily implemented using a digital circuit, the frequency shift key decoding apparatus, and even the whole wireless receiver can be implemented in a single chip.